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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/675,695	09/30/2003	Vesselin G. Manev	DP-309342	6169
22851 7590 05/15/2007 DELPHI TECHNOLOGIES, INC. M/C 480-410-202 PO BOX 5052			EXAMINER	
			CHU, HELEN OK	
TROY, MI 480	07		ART UNIT	PAPER NUMBER
			1745	
•			MAIL DATE	DELIVERY MODE
			05/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/675,695	MANEV ET AL.	
Office Action Summary	Examiner	Art Unit	
	Helen O. Chu	1745	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	rith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RI WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communicatio If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by s Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUN FR 1.136(a). In no event, however, may a n. eriod will apply and will expire SIX (6) MO statute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on :	19 February 2007.		
·= · · · · · · · ·	This action is non-final.		
3) Since this application is in condition for all closed in accordance with the practice und	•	•	
Disposition of Claims			
4) ⊠ Claim(s) <u>1-3,5-13 and 15-20</u> is/are pendin 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-3,5-13 and 15-20</u> is/are rejecte 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction a	ndrawn from consideration.		
Application Papers			
9) The specification is objected to by the Example 1	miner.	,	
10) ☐ The drawing(s) filed on is/are: a) ☐	accepted or b) ☐ objected to	by the Examiner.	
Applicant may not request that any objection to	- · · ·		
Replacement drawing sheet(s) including the control of the control	•	• • • • • • • • • • • • • • • • • • • •	
Priority under 35 U.S.C. § 119	,		
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	ments have been received. ments have been received in a priority documents have bee ureau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
	·		
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)	
Notice of References Cited (PTO-692) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No	(s)/Mail Date Informal Patent Application	

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DETAILED ACTION

- 1. Applicant's amendments have been received on February 19, 2007. Claims 1, 5, 6, 11, 15, 16 have been amended. Claims 4, 14 have been cancelled.
- 2. The text of those sections of Title 35, U.S.C. code not included in this action can be found in the prior Office Action.

Claim Rejections - 35 USC § 102

- 3. The rejections under 35 U.S.C 102(b), on claims 1-6 and 11-16 are withdrawn because Applicants have cancelled and amended the claims.
- 4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-3, 5, 6, 11-13 and 14-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Kiyohiko et al. (Japanese Publication 2002-203540)

In regards to claims 1-3, 5, 6, 11-13 and 15-16, the Kiyohiko et al. reference discloses a nickel oxide containing $\text{LiNi}_{1-z}\text{Mb}_z\text{O}_2$ where z is between $0.01 \le z \le 0.5$ (Paragraph 19) and Mb is manganese. The Kiyohiko et al. also discloses a positive electrode content of Li_2CO_3 in a range of 0.001-0.3 (0.0wt% to 5 wt%; Abstract) where k and n is equal to 0.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 7-10 and 17-20 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Kiyohiko et al. (Japanese Publication 2002-203540).

The Kiyohiko et al. reference discloses the positive electrode material of claims 1 and 11 as discuss above and further incorporated herein. It is noted that claims 7-10 and 17-20 are product-by-process claims. "Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F. 2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985). Since, the positive electrode product is identical to that claimed in the claims, the process limitations is not given patentable weight in these claim.

Response to Arguments

Applicant's arguments filed February 9, 2007 have been fully considered but they are not persuasive.

Applicant's principal arguments are:

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a. The Kiyohiko reference fails to teach or suggest expressly or impliedly the Applicant's battery comprising a positive electrode material of the formula LiNixCoyMzO2 • (LiOH)k(Li2CO3)m(LiHCO3)n, wherein M is one or more transition metals different than Ni and Co, X+Y+Z=1, X>0, Z<0.5, 0.001<k+m+n<0.3, and k+n<0.1m, as set forth in currently

In response to Applicant's please consider the following:

a. The Kiyohiko et al. reference does teach that X is greater than 0. The mol of nickel (as Applicant's denoted with X) is represented by Kiyohiko as 1-Z is greater than 0 where Z is between 0.01 to 0.5, Y is equal to 0. Furthermore, the Kiyohiko reference discloses Li₂CO₃ in a range of 0.001-0.3 where the parameters of k and n are also equal to 0.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helen O. Chu whose telephone number is (571) 272-5162. The examiner can normally be reached on Monday-Friday 8am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Patrick Ryan can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HOC

TRACY DOVE
PRIMARY EXAMINER

5/07